

soil, dry. Slope incline: 10 degrees, N-NW. Rainfall: less than 300 mm. Dominant tree sp: *Crataegus*; Associated-M. *Sieversii*. Dominant shrub sp: *Amygdalus*; Assoc-*Cerasus*. Associated herbaceous: *Rheum*, *Tulipa*. Sampled 60 fruits from 1 tree. Fruit is firm with aromatic flesh flavor. Over color is 75% red. Very clean. Spur type tree.

PI 600576. *Malus sieversii* (Ledeb.) M. Roem.

Wild. Kaz 95 18-11; GMAL 3690. Collected 09/10/1995 in Kazakhstan. Latitude 42 deg. 53' 18'' N. Longitude 69 deg. 52' 52'' E. Elevation 910 m. Karatau Province. Boraldy River Forest area. 5 km. North of Boraldy Forest Camp which is 80 km. North of Chimkent. Xerophytic. Very stony soil, dry. Slope incline: 10 degrees, N-NW. Rainfall: less than 300 mm. Dominant tree sp: *Crataegus*; Associated-M. *Sieversii*. Dominant shrub sp: *Amygdalus*; Assoc-*Cerasus*. Associated herbaceous: *Rheum*, *Tulipa*. Sampled 150 fruits from 1 tree. Fruit is firm with aromatic flesh flavor. Very clean. Very old tree. Spur type tree.

PI 600577. *Malus sieversii* (Ledeb.) M. Roem.

Wild. Kaz 95 18-14; GMAL 3691. Collected 09/10/1995 in Kazakhstan. Latitude 42 deg. 53' 18'' N. Longitude 69 deg. 52' 52'' E. Elevation 910 m. Karatau Province. Boraldy River Forest area. 5 km. North of Boraldy Forest Camp which is 80 km. North of Chimkent. Xerophytic. Very stony soil, dry. Slope incline: 10 degrees, N-NW. Rainfall: less than 300 mm. Dominant tree sp: *Crataegus*; Associated-M. *Sieversii*. Dominant shrub sp: *Amygdalus*; Assoc-*Cerasus*. Associated herbaceous: *Rheum*, *Tulipa*. Sampled 150 fruits from 1 tree. Fruit is hard. Over color is 90% red. Stressed from drought. Spur type tree.

PI 600578. *Malus sieversii* (Ledeb.) M. Roem.

Wild. Kaz 95 18-17; GMAL 3692. Collected 09/10/1995 in Kazakhstan. Latitude 42 deg. 53' 18'' N. Longitude 69 deg. 52' 52'' E. Elevation 910 m. Karatau Province. Boraldy River Forest area. 5 km. North of Boraldy Forest Camp which is 80 km. North of Chimkent. Xerophytic. Very stony soil, dry. Slope incline: 10 degrees, N-NW. Rainfall: less than 300 mm. Dominant tree sp: *Crataegus*; Associated-M. *Sieversii*. Dominant shrub sp: *Amygdalus*; Assoc-*Cerasus*. Associated herbaceous: *Rheum*, *Tulipa*. Sampled 80 fruits from 1 tree. Fruit is firm with aromatic flesh flavor. Good apple. Remote from the main population.

PI 600579. *Malus sieversii* (Ledeb.) M. Roem.

Wild. Kaz 95 19-01; GMAL 3694. Collected 09/10/1995 in Kazakhstan. Latitude 42 deg. 52' 29'' N. Longitude 69 deg. 53' 11'' E. Elevation 600 m. Karatau Province. Boraldy River Forest area. 1.5 km. West of Boraldy Forest Camp which is 80 km. North of Chimkent. Landform: Stream bed. Slope incline: 5 degrees, North. Dominant tree sp: *Salix*; Associated-*Crataegus*, *Rhamnus*. Dominant shrub sp: *Lonicera*. Dominant herbaceous: Grasses. Sampled 70 fruits from 1 tree. Fruit is hard.

PI 600580. *Malus sieversii* (Ledeb.) M. Roem.

Wild. Kaz 95 19-02; GMAL 3695. Collected 09/10/1995 in Kazakhstan. Latitude 42 deg. 52' 29'' N. Longitude 69 deg. 53' 11'' E. Elevation 600 m. Karatau Province. Boraldy River Forest area. 1.5 km. West of Boraldy Forest Camp which is 80 km. North of Chimkent. Landform: Stream bed. Slope incline: 5 degrees, North. Dominant tree sp: *Salix*; Associated-*Crataegus*, *Rhamnus*. Dominant shrub sp: *Lonicera*. Dominant